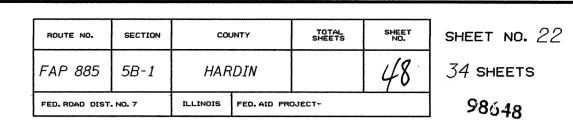
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

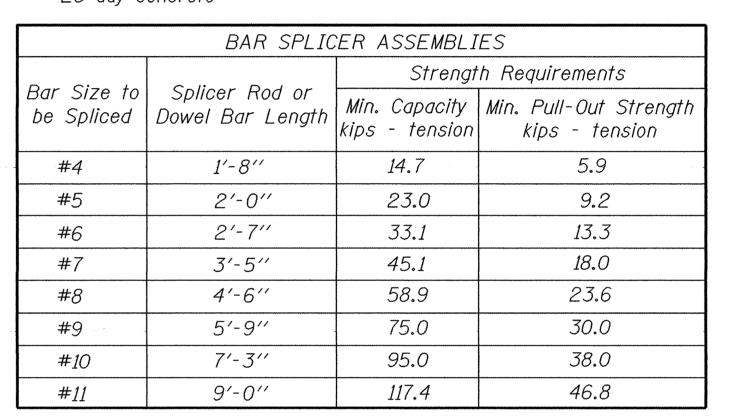
reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum *Pull-out Strength (Tension in kips) = 1.25 x fs_{allow} x A_t

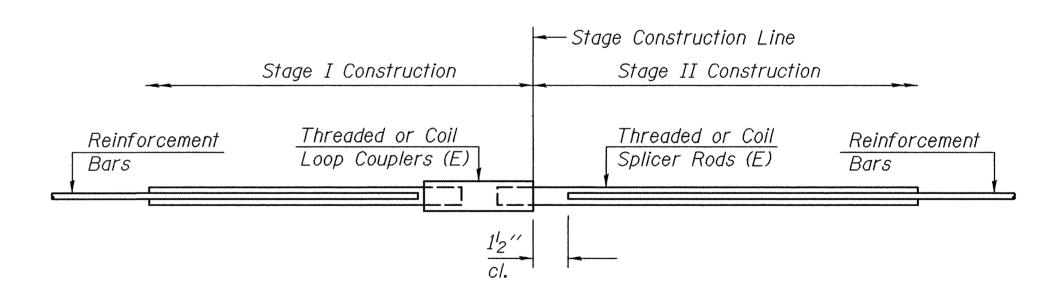
Where fy = Yield strength of lapped reinforcement bars in ksi.

 f_{sallow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars.

* = .28 day concrete



Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

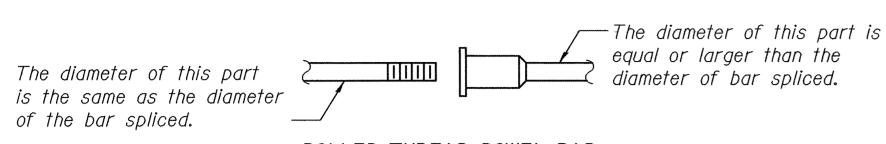
Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS
F.A.P. ROUTE 885 - SECTION 5B-1

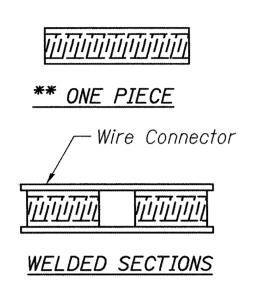
HARDIN COUNTY

STATION 280+80.00

STRUCTURE NO. 035-0014

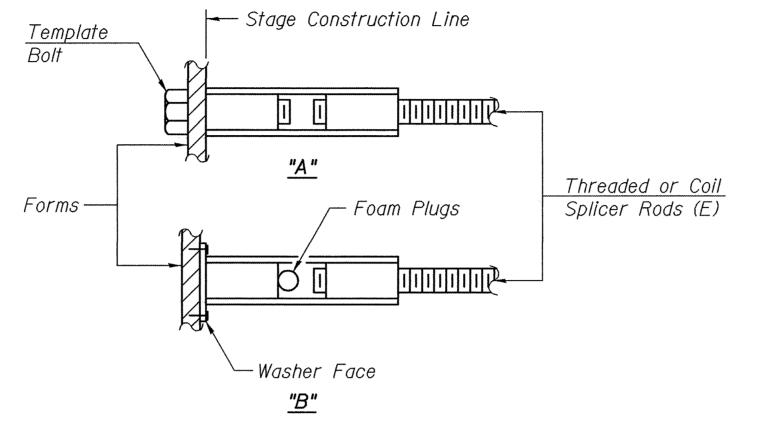


ROLLED THREAD DOWEL BAR



BAR SPLICER ASSEMBLY ALTERNATIVES

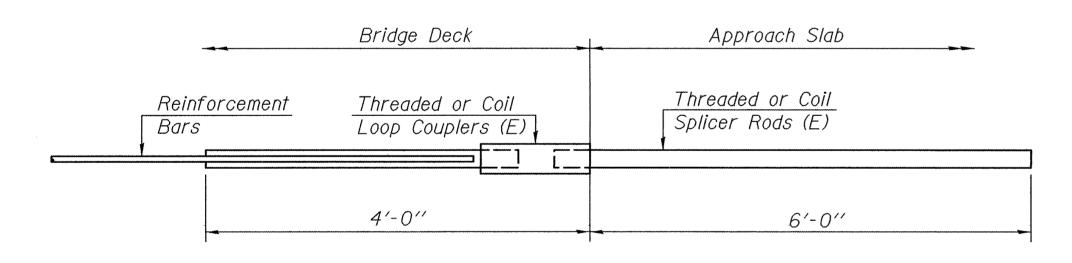
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 72

DESIGNED T.L.K.

CHECKED J.E.K.

DRAWN BECKY M. CURRY

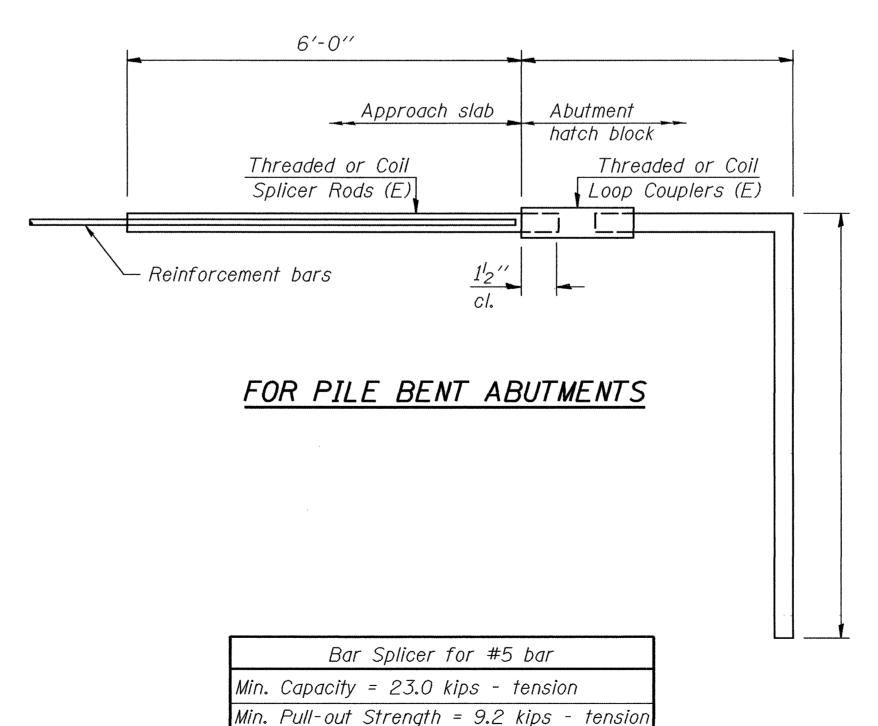
CHECKED T.L.K. & T.R.B.

January 15, 2004

EXAMINED Thomas magalabi

ENGINEER OF BRIDGE AND STRUCTURES

ENGINEER OF BRIDGES AND STRUCTURES



No. Required =

.\projects\bmc00029\0350014.dgn 1/15/2004 2:11:37 PM

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